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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.
App. No.: 10/617,321 GPAU: 2834
Filing Date: 07/10/2003 Examiner: Thomas M. Dougherty
Dkt. No.: PA88-30D09 Conf. No.: 2821
For: METHOD OF SEPARATING A TEMPLATE FROM A SUBSTRATE DURING
IMPRINT LITHOGRAPHY

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
- ☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEES DUE

This Information Disclosure Statement is being filed:

- ☐ within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

- ☐ before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- ☐ during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
- ☒ during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal. Additionally, no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.

CERTIFICATE OF TRANSMISSION

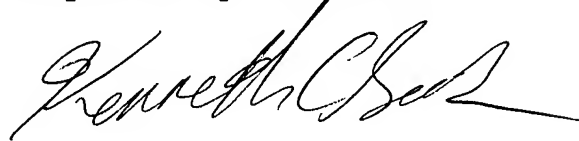
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Signed: Katrina Prati

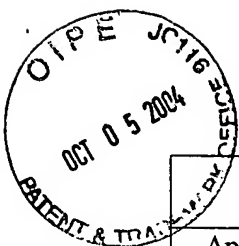
Typed Name: Katrina Prati

Date: 9-30-04

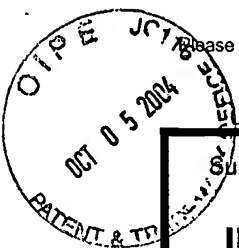
Respectfully Submitted,



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TRANSMITTAL LETTER			Attorney Docket Number: PA88-30D09			
Application Number: 10/617,321	Filing Date: 07/10/2003	Examiner: Thomas M. Dougherty	Group Art Unit: 2821			
Invention: METHOD OF SEPARATING A TEMPLATE FROM A SUBSTRATE DURING IMPRINT LITHOGRAPHY						
TO THE COMMISSIONER FOR PATENTS: Transmitted herewith are the following documents in the above-identified application. The fee has been calculated as shown below.						
<div style="display: flex; flex-direction: column; gap: 5px;"><div><input type="checkbox"/> Amendment (page(s));</div><div><input type="checkbox"/> Petition is hereby made under 37 CFR 1.136(a) to extend the time for response to the Office Action of to and through , comprising an extension of the shortened statutory period of: month(s) (page(s));</div><div><input checked="" type="checkbox"/> Information Disclosure Statement (9 page(s)), including Transmittal (2 page(s)), and Form PTO/SB/08A (7 page(s)); and</div><div><input checked="" type="checkbox"/> Copies of 19 cited references;</div><div><input checked="" type="checkbox"/> Return Receipt Postcard and this sheet in duplicate</div></div>						
CLAIMS AS AMENDED						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	NO. OF EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS		MINUS			\$18.00	\$ 0
INDEP. CLAIMS		MINUS			\$86.00	\$0
Petition for Extension of Time				(1 mo. - \$110.00)	\$ 0	
Information Disclosure Fee					\$180.00	
TOTAL FEE					\$180.00	
<div style="display: flex; flex-direction: column; gap: 10px;"><div><input type="checkbox"/> Applicant claims small entity status under 37 CFR 1.27</div><div><input type="checkbox"/> A check in the amount of \$ is attached.</div><div><input checked="" type="checkbox"/> Charge \$180.00 to deposit account number 502650 and credit any overpayment or debit any underpayment to the same deposit account 502650.</div><div><input checked="" type="checkbox"/> No additional fee is required, but if any fees are incurred regarding this matter kindly charge deposit account number 502650.</div></div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"><div style="text-align: center;"><div style="font-size: 1.5em; font-family: cursive;">9/30/04</div><div>date</div></div><div style="text-align: center;"><div style="font-size: 1.5em; font-family: cursive;">Kenneth C. Brooks</div><div>Kenneth C. Brooks Reg. No. 38393 Legal Department Molecular Imprints, Inc. P.O. Box 81536 Austin, Texas 78708-1536 Telephone: 512-339-7760, ext. 243 Facsimile: 512-491-8918</div></div></div> <div style="text-align: center; margin-top: 20px;"><u>CERTIFICATE OF TRANSMISSION/MAILING</u> I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Commissioner for Patents on <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div style="text-align: center;"><div style="font-size: 1.2em; font-family: cursive;">9-30-04</div></div><div style="text-align: center;"><div style="font-size: 1.2em; font-family: cursive;">Katrina Prati</div><div>Katrina Prati</div></div></div></div>						



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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

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Complete if Known

Application Number	10/617,321
Filing Date	07/10/2003
First Named Inventor	Choi et al.
Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA88-30D09

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	B1	4,070,116		Frosch et al.	01-24-1978	
	B2	4,600,309		Fay	07-15-1986	
	B3	4,848,911		Uchida et al.	07-18-1989	
	B4	5,074,667		Miyatake	12-24-1991	
	B5	5,148,036		Matsugu et al.	09-15-1992	
	B6	5,148,037		Suda et al.	09-15-1992	
	B7	5,151,754		Ishibashi et al.	09-29-1992	
	B8	5,179,863		Uchida et al.	01-19-1993	
	B9	5,376,810		Hoenk et al.	12-27-1994	
	B10	5,424,549		Feldman	06-13-1995	
	B11	5,670,415		Rust	09-23-1997	
	B12	5,743,998		Park	04-28-1998	
	B13	5,855,686		Rust	01-05-1999	
	B14	5,948,219		Rohner	09-07-1999	
	B15	6,035,805		Rust	03-14-2000	
	B16	6,150,680		Eastman et al.	11-21-2000	
	B17	6,326,627	B1	Putvinski et al.	12-04-2001	
	B18	2002/0132482	A1	Chou	09-19-2002	
	B19	2002/0167117	A1	Chou	11-14-2002	
	B20	6,482,742	B1	Chou	11-19-2002	
	B21	6,534,418	B1	Plat et al.	03-18-2003	
	B22	6,541,360	B1	Plat et al.	04-01-2003	
	B23	2003/0081193	A1	White et al.	05-01-2003	
	B24	2003/0080471	A1	Chou	05-01-2003	
	B25	2004/0036201	A1	Chou et al.	02-26-2004	
	B26	5,468,542		Crouch	11-21-1995	
	B27	5,366,851		Novembre	11-22-1994	
	B28	5,362,606		Hartney et al.	11-08-1994	
	B29	5,324,683		Fitch et al.	06-28-1994	
	B30	5,212,147		Sheats	05-18-1993	
	B31	5,458,520		DeMercurio et al.	10-17-1995	
	B32	5,453,157		Jeng	09-26-1995	
	B33	5,439,766		Day et al.	08-08-1995	
	B34	5,431,777		Austin et al.	07-11-1995	
Examiner Signature					Date Considered	

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Substitute for form 1449A/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number		10/617,321
				Filing Date		07/10/2003
				First Named Inventor		Choi et al.
				Group Art Unit		2834
				Examiner Name		Dougherty, Thomas M.
(use as many sheets as necessary)				Attorney Docket Number		PA88-30D09
Sheet	2	of	7			

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	B35	5,422,295		Choi et al.	06-06-1995	
	B36	5,421,981		Leader et al.	06-06-1995	
	B37	5,417,802		Obeng	05-23-1995	
	B38	5,380,474		Rye et al.	01-10-1995	
	B39	5,374,454		Bickford et al.	12-20-1994	
	B40	5,330,881		Sidman et al.	07-19-1994	
	B41	5,328,810		Lowrey et al.	07-12-1994	
	B42	5,318,870		Hartney	06-07-1994	
	B43	5,244,818		Jokerst et al.	09-14-1993	
	B44	5,242,711		DeNatale et al.	09-07-1993	
	B45	5,240,878		Fitzsimmons et al.	08-31-1993	
	B46	5,108,875		Thackeray et al.	04-28-1992	
	B47	5,053,318		Gulla et al.	10-01-1991	
	B48	4,964,945		Calhoun	10-23-1990	
	B49	4,908,298		Hefferon et al.	03-13-1990	
	B50	4,921,778		Thackeray et al.	05-01-1990	
	B51	4,919,748		Bredbenner et al.	04-24-1990	
	B52	3,783,520		King	01-08-1974	
	B53	6,776,094	B1	Whitesides et al.	08-17-2004	
	B54	4,201,800		Alcorn et al.	05-06-1980	
	B55	4,426,247		Tamamura et al.	01-17-1984	
	B56	4,507,331		Hiraoka	03-26-1985	
	B57	4,552,833		Ito et al.	11-12-1985	
	B58	4,657,845		Frechet et al.	04-14-1987	
	B59	4,692,205		Sachdev et al.	09-08-1987	
	B60	4,707,218		Giammarco et al.	11-17-1987	
	B61	4,737,425		Lin et al.	04-12-1988	
	B62	4,808,511		Holmes	02-28-1989	
	B63	4,826,943		Ito et al.	05-02-1989	
	B64	4,857,477		Kanamori	08-15-1989	
	B65	4,891,303		Garza et al.	01-02-1990	
	B66	4,931,351		McColgin et al.	06-05-1990	
	B67	4,976,818		Hashimoto et al.	12-11-1990	
	B68	4,980,316		Huebner	12-25-1990	
Examiner Signature					Date Considered	

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Substitute for form 1449A/PTO <h2 style="margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="margin: 10px 0 0 40px;"><i>(use as many sheets as necessary)</i></p>				Complete if Known	
Application Number		10/617,321			
Filing Date		07/10/2003			
First Named Inventor		Choi et al.			
Group Art Unit		2834			
Examiner Name		Dougherty, Thomas M.			
Attorney Docket Number		PA88-30D09			
Sheet	3	of	7		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	B69	4,999,280		Hiraoka	03-12-1991	
	B70	5,071,694		Uekita et al.	12-10-1991	
	B71	5,169,494		Hashimoto et al.	12-08-1992	
	B72	5,173,393		Sezi et al.	12-22-1992	
	B73	5,198,326		Hashimoto et al.	03-30-1993	
	B74	5,234,793		Sebald et al.	08-10-1993	
	B75	5,314,772		Kozicki et al.	05-24-1994	
	B76	5,527,662		Hashimoto et al.	06-18-1996	
	B77	5,654,238		Cronin et al.	08-05-1997	
	B78	5,700,626		Lee et al.	12-23-1997	
	B79	5,736,424		Prybyla et al.	04-07-1998	
	B80	5,895,263		Carter et al.	04-20-1999	
	B81	5,907,782		Wu	05-25-1999	
	B82	5,926,690		Toprac et al.	07-20-1999	
	B83	5,948,570		Kornblit et al.	09-07-1999	
	B84	6,033,977		Gutsche et al.	03-07-2000	
	B85	6,096,655		Lee et al.	08-01-2000	
	B86	6,150,231		Muller et al.	11-21-2000	
	B87	6,245,581	B1	Bonser et al.	06-12-2001	
	B88	6,274,294	B1	Hines	08-14-2001	
	B89	6,329,256	B1	Ibok	12-11-2001	
	B90	6,383,928	B1	Eissa	05-07-2002	
	B91	6,387,783	B1	Furukawa et al.	05-14-2002	
	B92	6,388,253	B1	Su	05-14-2002	
	B93	6,391,798	B1	DeFelice et al.	05-21-2002	
	B94	6,455,411	B1	Jiang et al.	09-24-2002	
	B95	6,489,068	B1	Kye	12-03-2002	
	B96	6,514,672	B2	Young et al.	02-04-2003	
	B97	6,561,706	B2	Singh et al.	05-13-2003	
	B98	6,565,928	B2	Sakamoto et al.	05-20-2003	
	B99	2003/011368	A1	Mancini et al.	06-19-2003	
	B100	2003/0129542	A1	Shih et al.	07-10-2003	
	B101	6,632,742	B2	Yang et al.	10-14-2003	
	B102	6,635,581	B2	Wong	10-21-2003	
Examiner Signature					Date Considered	

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Sheet

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of

7

Application Number

10/617,321

Filing Date

07/10/2003

First Named Inventor

Choi et al.

Group Art Unit

2834

Examiner Name

Dougherty, Thomas M.

Attorney Docket Number

PA88-30D09

U.S. PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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7

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Application Number

10/617,321

Filing Date

07/10/2003

First Named Inventor

Choi et al.

Group Art Unit

2834

Examiner Name

Dougherty, Thomas M.

Attorney Docket Number

PA88-30D09

FOREIGN PATENT DOCUMENTS

[illegible]

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Date
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/617,321
				Filing Date	07/10/2003
				First Named Inventor	Choi et al.
				Group Art Unit	2834
				Examiner Name	Dougherty, Thomas M.
Sheet	6	of	7	Attorney Docket Number	PA88-30D09

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	B119	Abstract of Japanese Patent 63-138730	
	B120	Abstract of Japanese Patent 55-88332	
	B121	Abstract of Japanese Patent 57-7931	
	B122	Abstract of Japanese Patent 02-92603.	
	B123	Translation of Japanese Patent 02-92603.	
	B124	Abstract of Japanese Patent 02-24848.	
	B125	Translation of Japanese Patent 02-24848.	
	B126	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	B127	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
	B128	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	B129	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

Examiner Signature		Date Considered	
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				Application Number	10/617,321
				Filing Date	07/10/2003
				First Named Inventor	Choi et al.
				Group Art Unit	2834
				Examiner Name	Dougherty, Thomas M.
Sheet	7	of	7	Attorney Docket Number	PA88-30D09

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	B130	HU et al., "Flourescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9; "Macromolecules" 1998, vol. 31, no.13, pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
	B131	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online][Retreived 9/23/04 from URL:http://www.zyvex.com/nanotech/feynman.html.	
	B132	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online][Retreived 9/24/04 from URL:http://www.cibasc.com/image.asp?id=4040.	

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